

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: : Confirmation No.: 2374  
 :  
 Mehryar MOHRI : Attorney Ref.: 2001-0226  
 :  
 Serial No.: 09/910,093 : Art Unit: 2654  
 :  
 Filed: July 20, 2001 : Examiner: AZAD, ABUL K  
 :

FOR: A SYSTEM AND METHOD OF EPSILON REMOVAL OF WEIGHTED AUTOMATA  
 AND TRANSDUCERS

**The Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08A. Unless otherwise indicated herein, one copy of each reference that is not a US Patent reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is not considered to be, material to patentability as defined in §1.56(b).

- ☐ 1. This information disclosure statement is being filed within three months of the filing date of a national application other than a continued prosecution application under §1.53(d); within three months of the date of the entry of the national stage as set forth in §1.491 in an international application; before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under §1.114. No certification or fee is required. (37 C.F.R. §1.97(b)). If a first office action was mailed before the filing of this IDS, please debit deposit account 502960 the necessary fees set forth in 37 C.F.R. §1.17(p) to proceed to consider the cited references.
- ☒ 2. This information disclosure statement is being filed more than three months after the filing date of a national application other than a continued prosecution application under §1.53(d); more than three months after the date of the entry of the national stage as set forth in §1.491 in an international application; after the mailing date of a first Office action on the merits, or after the mailing of a first Office action after the filing of a request for continued examination under §1.114, but before the mailing date of any of a Final action under §1.113, a Notice of Allowance under §1.311 or an action that otherwise closes prosecution in the application. (37 C.F.R. §1.97(c)).
- ☐ a. I hereby certify that each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent

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office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. (37 C.F.R. §1.97 (e)(1)).

☐ b. I hereby certify that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and to my knowledge after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement. (37 C.F.R. §1.97 (e)(2)).

☒ c. Payment for the above is being paid by Credit Card, for payment of \$180 to cover the fee under 37 C.F.R. §1.17(p) and to ensure consideration of the disclosed information. If necessary, the Commissioner for Patents is authorized to charge or credit the **Law Office of Thomas M. Isaacson, LLC, Account No. 50-2960** for any deficiency or overpayment in order to process this IDS

☐ 3. This information disclosure statement is being filed after the mailing date of any of a Final action under §1.113, a Notice of Allowance under §1.311, or an action which otherwise closes prosecution, whichever occurs first, but on or before payment of the Issue Fee. (37 C.F.R. §1.97(d)).


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☐ b. I hereby certify that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement. (37 C.F.R. §1.97(e)(2)).

☐ c. Please debit Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the fee under 37 C.F.R. §1.17(p) and ensure consideration of the disclosed information.

☐ 4. Other Comments:

Respectfully submitted,

By: 

Date: February 20, 2007

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Receipt date: 02/20/2007

PATENT APPLICATION  
09910093 - 03 JUL 2002  
PTO/SB/08A MODIFIED

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	09/910,093		
		Filing Date	July 20, 2001		
		First Named Inventor	Mehryar MOHRI		
		Group Art Unit	2654		
		Examiner Name	AZAD, ABUL K		
Sheet	1	of	2	Attorney Docket Number	2001-0226

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	1	5,806,032		Sproat, Richard William	09-1998	
	2	6,499,132		Morley et al	12-2002	
	3	6,760,636		Kempe, Andre	07-2004	
	4	5,095,432		Reed, Jonathan H.	03-1992	
	5	6,574,597		Mohri et al	06-2003	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>4</sup>	Number (if known)	Kind Code <sup>2</sup>				
Examiner Signature					Date Considered			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Receipt date: 02/20/2007

PATENT APPLICATION  
09910093 - 07/20/2001  
PTO/SB/08A-MOBIPEI

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	09/910,093		
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		Group Art Unit	2654		
		Examiner Name	AZAD, ABUL K		
Sheet	2	of	2	Attorney Docket Number	2001-0226

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	Mohri, "Generic Epsilon-Removal Algorithm for Weighted Automata" In Sheng Yu and Andrei Paun, ed., 5 <sup>th</sup> International Conference, CIAA 2000, v.2088 of Lecture Notes in Computer Science, Springer-Verlag, 2001.	<input type="checkbox"/>
	2	Weng, F.L., Stolcke, A., and Sankar, A. (1998). Efficient Lattice Representation and Generation. In the Proceedings of International Conference on Spoken Language Processing, Sydney, Australia, Nov. 30 – Dec. 4, 1998.	<input type="checkbox"/>
	3	Mehryar Mohri et al; A Rational Design for a Weighted Finite-State Transducer Library. Proceedings of the Second International Workshop on Implementing Automata (WIA'97) volume 1436 of Lecture Notes in Computer Science, pages 144-158, September 1998	<input type="checkbox"/>
	4	Van Noord, Gertjan; "Treatment of Epsilon Moves in Subset Construction;" Computational Linguistics, Volume 26, Number 1, Pages 61-76, March 2000.	<input type="checkbox"/>
	5		<input type="checkbox"/>
	6		<input type="checkbox"/>

Examiner Signature	/Abul Azad/	Date Considered	09/07/2012
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